Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Owens-Brockway Glass Container
Facility # B1362

Facility Address:
22302 Hathaway Avenue
Hayward, CA 94541

Mailing Address:
One Seagate
Toledo, Ohio 43666

Responsible Official
Phyllis Cresswell, Plant Manager
510-781-0123

Facility Contact
Pam Fernandez, Plant Site Manager
510-784-0881 ext. 304

Type of Facility: Manufacturing glass container
Primary SIC: 3221
Product: Glass Container (bottleware)

BAAQMD Permit Division Contact:
Dharam Singh

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Ellen Garvey _____ May 22, 2001_____
Ellen Garvey, Executive Officer/Air Pollution Control Officer Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 10/7/98);

SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 8/27/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 10/7/98);

SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 10/7/98);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 10/7/98); and

SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on November 1, 1999, and expires on October 31, 2004. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than April 30, 2004 and no earlier than October 31, 2003. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** October 31, 2004**.** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)

I. Standard Conditions (continued)

5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

I. Standard Conditions (continued)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be November 1, 1999 to April 30, 2000. The report shall be submitted by May 31, 2000. Subsequent reports shall be for the following periods: May 1st through October 31st and November 1st through April 30th, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Bay Area Air Quality Management District
Director of Compliance and Enforcement
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be November 1st to October 31st. The certification shall be submitted by November 30th of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

I. Standard Conditions (continued)

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)
3. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement unless the Major Facility Review Permit has been modified pursuant to Regulation 2, Rule 6. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

II. EQUIPMENT LIST

A. Permitted Source List

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2-1-302.

Table II-A

S-#	Description	Make or Type	Model	Capacity
S-1	Glass melting furnace (natural gas)	Soda lime general furnace - Company design		56 MMBTU/hr; 320 ton/day max.
S-11	Shop equipment	Kelco	6H3842, Serial #5931	0.3 ton/hr max.
S-12	Glass forming machine - shop 1	Company design		4.5 tons/hr max.
S-13	Glass forming machine - shop 2	Company design		4.5 tons/hr max.
S-14	Glass forming machine - shop 3	Company design		4.5 tons/hr max.
S-16	Hot glass coating - shop 1	Certincoat	724R	l lb/hr max
S-17	Hot glass coating - shop 2	Certincoat	723L	l lb/hr max.
S-18	Hot glass coating - shop 3	Certincoat	732L	l lb/hr max.
S-28	Minors storage bin	Concrete silo		10 tons/hr max.
S-29	Raw material storage bins	Concrete silos		
S-30	Premix material conveyor	Booth		1 ton/hr max.
S-33	Sandblasters	Guyson	CM1000	0.0008 ton/hr max.
S-39	Truck unloading/transferring	Company design		
S-43	Railcar/Truck unloading/ transferring	Company design		
S-45	Batch mixer	Voeller Cycle	650	25 tons/hr max.
S-47	Basement Elevator (Batch)			
S-49	Frit feeder	Ferro		0.044 ton/hr max.
S-50	Storage Bin	Company design		
S-51	Material receiver	Company design		
S-52	Basement conveyor (Shaker)	Conveyor		
S-53	Batch materials scale	Scale		
S-101	Cullet crusher	Kue - Ken	Model 35	10 tons/hr max.

II. Equipment List (continued)

B. Abatement Device List

Table II-B

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-2	Cyclone	S-11	BAAQMD Reg. 6-301, 6-310	None	Outlet grain loading shall not exceed 0.15 gr/dscf
A-6	Settling chamber	S-33	BAAQMD Reg. 6-301, 6-310	None	Outlet grain loading shall not exceed 0.15 gr/dscf
A-7	Baghouse	S-43, S-101	BAAQMD Reg. 6-301, 6-310	Pressure drop: 1-8 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-45	Baghouse	S-45, S-47, S-52, S-53,	Cond #15452	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.02 grain/dscf
A-50	Baghouse, MAC 96AVR21, 1100 acfm	S-50	Cond #15452	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.02 grain/dscf
A-51	Baghouse, MAC 19AVRCF, 290 acfm	S-51	Cond #15452	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.02 grain/dscf
A-101	Baghouse, Mikro-Pulsaire, Model 4B, 200 cfm	S-29	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-102	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-29	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-103	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-29	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-104	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-29	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf

II. Equipment List (continued)

B. Abatement Device List (continued)

Table II-B (continued)

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-105	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-29	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-106	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-29	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-107	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-29	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-108	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-29	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-109	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-30	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-110	Baghouse, Mike-Pulsaire, Model 4B, 200 cfm	S-28	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-111	Baghouse, Dynamic Air Conveying Systems-Bag buster	S-30	BAAQMD Reg. 6-301, 6-310	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.15 gr/dscf
A-113	Baghouse, Mac Equipment, Inc., Model 96AVS25, 2000 cfm	S-39	BAAQMD Reg. 6-301, 6-310, Cond. #11513	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.02 gr/dscf

II. Equipment List (continued)

B. Abatement Device List (continued)

Table II-B (continued)

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-114	Baghouse, Mac Equipment, Inc., 72AVS25, 1400 cfm	S-39	BAAQMD Reg. 6-301, 6-310; Cond #11513	Pressure drop: 0.3-5 inch of water	Outlet grain loading shall not exceed 0.02 gr/dscf

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement.

NOTE:

There are differences between the current BAAQMD rule and the version of the rule in the SIP. For specific information, contact the District's Rule Development Section of the Enforcement Division. All sources must comply with both versions of the rule until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table III

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	N

III. Generally Applicable Requirements (continued)

Table III (continued)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	Y
EPA Regulation 40 CFR 61.145	Demolition and Renovation	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board

2 Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section V, Permit Conditions, of this permit. The full language of SIP requirements is included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement. All other text may be found in the regulations themselves.

Table IV - A
S-1 - GLASS MELTING FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV - A
S-1 - GLASS MELTING FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 12	**Inorganic Gaseous Pollutants, Nitrogen Oxides From Glass Melting Furnace (1/19/94)**		
9-12-301	Emission Limit	Y	
9-12-402	Furnace Operating Parameters for Source Tests	Y	
9-12-403	Baseline Emission Rate Determinations	Y	
9-12-404	Compliance Determination	Y	
9-12-501	Production Monitoring	Y	
9-12-502	Fuel Monitoring	Y	
9-12-601	Determination of Nitrogen Oxides	Y	
9-12-602	Determination of Oxygen	Y	
9-12-603	Sampling and Averaging Period	Y	
9-12-604	Calculation of Mass Emission Rate Per Ton of Glass Pulled	Y	
BAAQMD Regulation 11, Rule 1	**Lead (3/17/82)**		
11-1-301	Daily Limitation	Y	
11-1-302	Ground Level Concentration Without Background	Y	
BAAQMD Condition #8756			
part 1	Throughput limit (basis: cumulative increase)	Y	
part 2	Recordkeeping requirement (basis: cumulative increase, Regulation 2-6-501)	Y	
part 3	Annual source testing (basis: Regulations 9-12-301, 9-1-302, 6-310, 6-311, and 11-1-301, 2-6-501)	Y	
part 4	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
part 5	Natural gas or LPG fuel usage (basis: cumulative increase)	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV - B
S-11 - SHOP EQUIPMENT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #16601			
part 2	Abatement requirement (basis: Regulation 6)	Y	

Table IV - C
S-12, S-13, S-14 - GLASS FORMING MACHINE - SHOP 1, SHOP 2, SHOP 3
S-16, S-17, S-18 - HOT GLASS COATING - SHOP 1, SHOP 2, SHOP 3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #16601			
part 1	Visible emissions monitoring (basis: Regulation 2-6-501)	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV - D
S-28 - MINORS STORAGE BIN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #4826			
part 1	Baghouse maintenance requirement (basis: Regulation 6-301)	Y	
part 3	Operating requirement (basis: Regulation 6-301)	Y	
part 4	Pressure drop monitoring (basis: cumulative increase)	Y	
part 5	Pressure drop Limits (basis: cumulative increase)	Y	
part 6	Baghouse inspection (basis: 2-6-501)	Y	

Table IV - E
Source-specific Applicable Requirements
S-29 - RAW MATERIAL STORAGE BIN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #4826			

IV. Source-Specific Applicable Requirements (continued)

Table IV - E
Source-specific Applicable Requirements
S-29 - RAW MATERIAL STORAGE BIN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 1	Baghouse maintenance requirements (basis: Regulation 6-301)	Y	
part 2	Abatement requirement (Regulation 6-301)	Y	
part 4	Pressure drop monitoring (basis: cumulative increase)	Y	
part 5	Pressure drop limits (basis: cumulative increase)	Y	
part 6	Baghouse inspection (basis: 2-6-501)	Y	

Table IV - F
S-30 - PREMIX MATERIAL CONVEYOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #5002			
part 1	A-109 and A-111 Baghouse maintenance requirement (basis: Regulation 6-301)	Y	
part 2	Abatement requirement (basis: Regulation 6-301)	Y	
part 3	Pressure drop monitoring (basis: cumulative increase)	Y	
part 4	Pressure drop Limits (basis: cumulative increase)	Y	
part 5	Baghouse inspection (basis: 2-6-501)	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV - G
S-33 - SANDBLASTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #16601			
part 1	Visible emissions monitoring (basis: Regulation 2-6-501)	Y	
part 3	Abatement requirement (basis: Regulation 6)	Y	

Table IV - H
S-39 - TRUCK UNLOADING AND TRANSFERRING

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #11513			
part 1	Abatement requirement (basis: cumulative increase)	Y	
part 2	Abatement requirement (basis: cumulative increase)	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV - H
S-39 - TRUCK UNLOADING AND TRANSFERRING

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 3	Pressure drop monitoring requirement (basis: cumulative increase)	Y	
part 4	Pressure drop monitoring requirement (basis: cumulative increase)	Y	
part 5	Determination of pressure drop range (basis: cumulative increase)	Y	
part 6	A-113 Baghouse exhaust grain loading requirement (basis: cumulative increase)	Y	
part 7	A-114 Baghouse exhaust grain loading requirement (basis: cumulative increase)	Y	
part 8	Source test requirement (basis: Regulations 6-301, and 2-6-501)	Y	
part 9	Pressure drop recordkeeping requirement(basis: Regulation 6-310)	Y	
part 10	Annual baghouse inspection (basis: Regulation 2-6-501)	Y	

Table IV - I
S-43 - RAIL CAR /TRUCK UNLOADING AND TRANSFERRING

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #11513			

IV. Source-Specific Applicable Requirements (continued)

Table IV - I
S-43 - RAIL CAR /TRUCK UNLOADING AND TRANSFERRING

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 11	Abatement requirement (basis: cumulative increase)	Y	
part 12	Pressure drop monitoring requirement(basis: cumulative increase, 2-6-501)		
part 1321	Annual baghouse inspection (basis: Regulation 2-6-501)	Y	

Table IV - J
S-45 - BATCH MIXER, S-47 - BASEMENT ELEVATOR (BATCH), S-52 - BASEMENT CONVEYOR (SHAKER), S-53 - BATCH MATERIALS SCALE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #15452			
part 1	Abatement requirement (basis: cumulative increase)	Y	
part 2	Pressure drop monitoring requirement (basis: cumulative increase)	Y	
part 3	Grain loading requirement (basis: cumulative increase)	Y	
part 10	Source testing requirement (basis: cumulative increase)	Y	
part 11	Pressure drop recordkeeping requirement (basis: Regulation 2-6-501)	Y	
part 12	Annual Baghouse inspection (basis: 2-6-501)	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV - K
S-49 - FRIT FEEDER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #16601			
part 1	Visible emissions monitoring (basis: Regulation 2-6-501)	Y	

Table IV - L
S-50 - STORAGE BIN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #15452			
part 4	Abatement requirement (basis: cumulative increase)	Y	
part 5	Pressure drop monitoring requirement (basis: cumulative increase)	Y	
part 6	Grain loading requirement (basis: cumulative increase)	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV - L
S-50 - STORAGE BIN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 10	Source testing requirement (basis: Regulation 6-310)	Y	
part 11	Pressure drop recordkeeping requirement (basis: Regulation 2-6-501)	Y	
part 12	Annual baghouse inspection (basis: 2-6-501)	Y	

Table IV - M
S-51 - MATERIAL RECEIVER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #15452			
part 7	Abatement Requirement (basis: cumulative increase)	Y	
part 8	Baghouse pressure drop monitoring requirement (basis: cumulative increase)	Y	
part 9	Baghouse grain loading requirement (basis: cumulative increase)	Y	
part 10	Source testing requirement (basis: Regulation 6-310)	Y	
part 11	Pressure drop recordkeeping requirement (basis: Regulation 2-6-501)	Y	
part 12	Annual baghouse inspection (basis: 2-6-501)	Y	

IV. Source-Specific Applicable Requirements (continued)

Table IV - N
S-101 - CULLET CRUSHER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #15747			
part 1	Abatement requirement (basis: Regulation 6)	Y	
part 2	Maintenance requirement (basis: Regulation 6)	Y	
part 3	Pressure drop monitoring requirement (basis: cumulative increase, and 2-6-501)	Y	
part 4	Annual baghouse inspection (basis: Regulation 2-6-501)	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall continue to comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit.

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

A. Source Specific Permit Conditions

Condition # 4826
For S-28, S-29, Storage bins

1. The Permit holder shall keep the Baghouses, A-101 through A-108 and A-110, in good operating condition. (basis: Regulation 6-301)

2. All particulate matter emissions from S-29 shall be routed to the baghouses A-101 through A-108. (basis: Regulation 6-301, 6-310, 6-311)

3. Particulate matter emissions from S-28 shall be routed to the baghouse A-110. (basis: Regulation 6-301, 6-310, 6-311)

4. The permit holder shall operate a District-approved magnahelic pressure gauge which measures the pressure drop across each baghouse. The pressure drop across each baghouse shall be in the normal operating range of 0.3-5 inch of water during operation. (basis: cumulative increase)

5. The pressure drop across the baghouses shall be monitored at all times that the above sources are operated and recorded once a week to ascertain that the pressure drops are in the normal operating range, and the baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

6. Each baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

VI. Permit Conditions (continued)

Condition # 5002
For S-30, Pre-mix Material Conveyor

1. The Permit Holder shall keep the Baghouses, A-109 and A-111, in good operating condition . (basis: Regulation 6-301)

2. Particulate matter emissions from S-30 shall be routed to the baghouses A-109 and A-111. (basis: Regulation 6-301, 6-310, 6-311)

3. The permit holder shall operate a District-approved magnahelic pressure gauge which measures the pressure drop across each baghouse. The pressure drop across each baghouse shall be in the normal operating range of 0.3-5 inch of water during operation. (basis: cumulative increase)

4. The pressure drop across the baghouses shall be monitored at all times that the above source is operated and recorded once a week to ascertain that the pressure drops are in the normal operating range, and the baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

5. Each baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

Condition # 8756
For S-1, Glass Melting Furnace

1. Total glass pulled at this facility shall not exceed 107,670 tons in any consecutive twelve month period. (basis: cumulative increase)

2. Plant shall maintain monthly records of the amount of glass pulled at this facility. Records shall be retained on site for five years from the date of entry, and be available for inspection by District staff upon request. (basis: Regulation 2-6-501; cumulative increase)

VI. Permit Conditions (continued)

Condition # 8756
For S-1, Glass Melting Furnace

3. A District-approved source test shall be conducted annually and submitted to the District within 30 days of the test date to demonstrate compliance with the following:
   a. Nitrogen oxides emission limit of 5.5 lb/ton of glass pulled (basis: Regulations 9-12-301, 9-12-501)
   b. Sulfur dioxide emission limit of 300 ppm (dry). (basis: Regulation 9-1-301)
   c. PM grain loading of 0.15 gr/dscf, and emission limit of 40 lb/hr (basis: Regulation 6-310, 6-311)
   d. Lead emission limit of 15 lb/day (basis: Regulation 11-1-301)
   (basis: Regulation 2-6-501)

4. Visible particulate emissions from S-1 shall be monitored weekly using either the District method (Manual of Procedures, Volume I, Evaluation of Visible Emissions) or EPA Method 9, and shall not exceed 1.0 on Ringelmann chart. Weekly records of visible emissions data shall be retained on site for a minimum period of five years from the date of data entry and be made available to District staff for inspection. (basis: Regulation 6-301, Regulation 2-6-501)

5. The glass melting furnace shall be fired exclusively with natural gas, liquefied petroleum gas, or any combination thereof. (basis: cumulative increase)

Condition # 11513
For S-39, Truck unloading/transferring
For S-43, Railcar/Truck unloading/transferring

S-39 Truck Unloading and Transfer abated by:
A-113 Baghouse; MAC Equipment AVS Filter, Model: 96AVS25, Bags: 25, Cloth Area: 332 Sq. Ft., Fan Rating: 2000 cfm; and
A-114 Baghouse; MAC Equipment AVS Filter, Model: 72AVS25, Bags: 25, Cloth Area: 245 Sq. Ft., Fan Rating: 1400 cfm

1. Particulate matter emissions from S-39 west side unloading conveyor belt shall be

VI. Permit Conditions (continued)

routed under negative pressure to A-113 for abatement at all times that S-39 is operated and/or emits particulate matter emissions. (basis: cumulative increase)

Condition # 11513
For S-39, Truck unloading/transferring
For S-43, Railcar/Truck unloading/transferring

2. Particulate matter emissions from S-39 silo top shall be routed under negative pressure to A-114 for abatement at all times that S-39 is operated and/or emits particulate matter emissions. (basis: cumulative increase)

3. A District-approved magnahelic pressure gauge shall be operated at A-113 which measures the pressure drop across the A-113 Baghouse. (basis: cumulative increase)

4. A District-approved magnahelic pressure gauge shall be operated at A-114 which measures the pressure drop across the A-114 Baghouse. (basis: cumulative increase)

5. The pressure drop across each baghouse shall be in the normal operating range of 0.3-5 inch of water during operation. (basis: cumulative increase)

6. The outlet grain loading of A-113 shall not exceed 0.02 grain per dry standard cubic foot of exhaust effluent. (basis: cumulative increase)

7. The outlet grain loading of A-114 shall not exceed 0.02 grain per dry standard cubic foot of exhaust effluent. (basis: cumulative increase)

8. A District approved source test shall be conducted once per permit term on each baghouse, A-113 and A-114, and submitted to the District with Title V permit renewal application to demonstrate compliance with parts # 6 and #7 of this condition. (basis: cumulative increase)

9. Pressure drop across A-113 and A-114 shall be monitored at all times S-39 is operated and recorded once a week to ascertain that the pressure drop is in the normal operating range, and baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

10. A-113 and A-114, Baghouses, shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at

VI. Permit Conditions (continued)

least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

Condition # 11513
For S-39, Truck unloading/transferring
For S-43, Railcar/Truck unloading/transferring

S-43 Railcar/Truck Unloading and Transferring abated by A-7

11. Particulate matter emissions from S-43 shall be routed under negative pressure to A-7 for abatement at all times that S-43 is operated and/or emits particulate matter emissions. (basis: cumulative increase)

12. A District-approved manometer shall be operated at A-7 which measures the pressure drop across the A-7. The pressure drop across the baghouse shall be in the normal operating range of 1-8 inch of water during operation. Pressure drop across A-7 shall be monitored at all times S-43 is operated and recorded once a week to ascertain that the pressure drop is in the normal operating range, and baghouse is in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: cumulative increase, Regulation 2-6-501)

13. A-7, Baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

Condition # 15452
For S-45, S-47, S-50, S-51, S-52, S-53

S-45 Batch Mixer abated by A-45, capacity 3500 acfm
S-47 Basement Elevator (Batch) abated by A-45, capacity 3500 acfm
S-52 Basement Conveyor (Shaker) abated by A-45, capacity 3500 acfm
S-53 Batch Materials Scale abated by A-45, capacity 3500 acfm

1. Particulate matter emissions from the S-45, Batch mixer, S-47, Basement elevator,

VI. Permit Conditions (continued)

S-52, Basement Conveyor, and S-53, Scale, shall be routed under negative pressure to A-45 for abatement at all times when any of these sources is operated and/or emits particulate matter emissions. (basis: cumulative increase)

Condition # 15452
For S-45, S-47, S-50, S-51, S-52, S-53

2. A District-approved magnahelic pressure gauge shall be operated at A-45 which measures the pressure drop across the A-45 Baghouse. (basis: cumulative increase)

3. The outlet grain loading of A-45 shall not exceed 0.02 grain per dry standard cubic foot of exhaust gas. (basis: cumulative increase)

S-50 Storage Bin abated by A-50 MAC 96AVR21,
Capacity: 1100 ACFM

4. Particulate matter emissions from the S-50, Salt Cake Storage bin, shall be routed under negative pressure to A-50, Baghouse, for abatement at all times when S-50 is operated and/or emits particulate matter emissions. (basis: cumulative increase)

5. A District-approved magnahelic pressure gauge shall be operated at A-50 Baghouse which measures the pressure drop across the A-50 Baghouse. (basis: cumulative increase)

6. The outlet grain loading of A-50 shall not exceed 0.02 grain per dry standard cubic foot of exhaust gas. (basis: cumulative increase)

S-51 Material Receiver abated by A-51 Material Receiver Baghouse; MAC19AVRCF,
Capacity: 290 ACFM

7. Particulate matter emissions from the S-51 Material Receiver shall be routed under negative pressure to A-51 Baghouse for abatement at all times when S-51 is operated and/or emits particulate matter emissions. (basis: cumulative increase)

8. A District-approved magnahelic pressure gaugeshall be operated at A-51 Baghouse which measures the pressure drop across the A-51 Baghouse. (basis: cumulative increase)

VI. Permit Conditions (continued)

9. The outlet grain loading of A-51 shall not exceed 0.02 grain per dry standard cubic foot of exhaust gas. (basis: cumulative increase)

Condition # 15452
For S-45, S-47, S-50, S-51, S-52, S-53

10. A District approved source test shall be conducted and submitted to the District with the Title V permit renewal application to demonstrate compliance with parts #3, #6, and #9 of this condition and Regulation 6-311 once during the permit term. (basis: cumulative increase)

11. The pressure drop across each baghouse shall be in the normal operating range of 0.3-5 inch of water during operation. Pressure drop across A-45, A-50, and A-51 shall be monitored at all times S-45, S-47, S-50, S-51, S-52, and S-53 are operated and recorded weekly to ascertain that the pressure drop is in the normal operating range, and the baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

12. A-45, A-50, and A-51, Baghouses shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

Condition #15747
For S-101, Cullet Crusher

1. Particulate matter emissions from the operation of S-101 shall always be routed to baghouse, A-7. (basis: Regulation 6)

2. The baghouse, A-7, shall be maintained in good operating condition. (basis: Regulation 6)

3. A District-approved manometer shall be operated at A-7 which measures the pressure drop across A-7. The pressure drop across the baghouse shall be in the normal operating range of 0.3-5 inch of water during operation. Pressure drop across A-7 shall be monitored at all times S-43 or S-101 is operated and recorded once a week to ascertain that the pressure drop is in the normal operating range, and baghouse is in good operating condition. The records shall be kept on site for at

VI. Permit Conditions (continued)

least five years from the date of data entry and be made available to the District staff for inspection. (basis: cumulative increase, Regulation 2-6-501)

Condition #15747
For S-101, Cullet Crusher

4. A-7, Baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

Condition #16601
For Sources S-11, Shop Equipment; S-12 to S-14, Glass Forming Machines; S-16 to S-18, Hot Glass Coating; S-33, Sand Blasting Equipment; and S49, Frit Feeder

1. The owner/operator of S-11, S-12, S-13, S-14, S-16, S-17, S-18, S-33, and S-49 shall conduct weekly visible emissions monitoring in order to determine compliance with Regulations 6-301 using either District method or EPA Method 9, and shall not exceed a Ringelmann 1.0. Weekly records of visible emissions data shall be retained on site for at least five years from the date of entry and be made available to District staff upon request. (basis: Regulation 2-6-501)

2. Particulate matter emissions from the operation of S-11, Shop Equipment shall always be routed to A-2, Cyclone. (basis: Regulation 6)

3. Particulate matter emissions from the operation of S-33, Sand Blasting Equipment shall always be routed to A-6, Settling Chamber. (basis: Regulation 6)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, either annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII - A
S-1 - GLASS MELTING FURNACE

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. #8756, part 4	P/W	Visible emission monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond #8756, part 3	P/A	Annual Source Test
	BAAQMD 6-311	Y		40 lb/hr	BAAQMD Cond #8756, part 3	P/A	Annual Source Test
NOx	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD 9-12-404	P/A	Annual source test
SO2	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		Sulfur dioxide emission not to exceed 300 ppm (dry)	BAAQMD Cond #8756, part 3	P/A	Annual source test

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - A (continued)
S-1 - GLASS MELTING FURNACE

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Lead	BAAQMD 11-1-301	Y		15 lb/day	BAAQMD Cond. #8756, part 3	P/A	Annual source test
	BAAQMD 11-1-302	Y		GLC not to exceed 1.0 ug/cu.m., 24 hr. avg.		N	
Glass Productio n	BAAQMD Cond #8756, part 1	Y		107,670 ton/yr	BAAQMD Cond #8756, part 2	P/M	Record keeping

Table VII - B
S-11 - SHOP EQUIPMENT

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann 1.0	BAAQMD Cond #16601, part 1	P/W	Visible emission monitoring
	BAAQM D 6-310	Y		0.15 gr/dscf		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - C
S-12, S-13, S-14 - GLASS FORMING MACHINE - SHOP 1, SHOP 2, SHOP 3
S-16, S-17, S-18 - HOT GLASS COATING - SHOP 1, SHOP 2, SHOP 3

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann 1.0	BAAQMD Condition #16601, part 1	P/W	Visible emission monitoring

Table VII - D
S-28 - MINORS STORAGE BIN
S-29 - RAW MATERIAL STORAGE BIN

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQM D 6-301	Y		Ringelmann 1.0	BAAQMD Cond. #4826, part 4 and 5	P/W	Pressure drop monitoring
	BAAQM D 6-301	Y		Ringelmann 1.0	BAAQMD Cond. #4826, part 6	P/A	Annual baghouse inspection
	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #4826, part 4 and 5	P/W	Pressure drop monitoring
	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #4826, part 6	P/A	Annual baghouse inspection
	BAAQM D 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #4826, part 4 and 5	P/W	Pressure drop monitoring

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - D
S-28 - MINORS STORAGE BIN
S-29 - RAW MATERIAL STORAGE BIN

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #4826, part 6	P/A	Annual baghouse inspection

Table VII - E
S-30 - PREMIX MATERIAL CONVEYOR

Type of limit	Emission Limit Citation	FE Y/N	Future Effectiv e Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. #5002, parts 3 and 4	P/W	Pressure drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. #5002, part 5	P/A	Annual baghouse inspection
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #5002, parts 3 and 4	P/W	Pressure drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #5002, part 5	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #5002, parts 3 and 4	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #5002, part 5	P/A	Annual baghouse inspection

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - F
S-33 - SANDBLASTERS

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Condition #16601, part 1	P/W	Visible emissions monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf		N	

Table VII - G
S-39 - TRUCK UNLOADING AND TRANSFERRING

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Condition #11513, parts 3-5, and part 9	P/W	Pressure drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Condition #11513, part 10	P/A	Annual baghouse inspection
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Condition #11513, parts 3-5, and part 9	P/W	Pressure drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Condition #11513, part 10	P/A	Annual baghouse inspection

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - G
S-39 - TRUCK UNLOADING AND TRANSFERRING

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Condition #11513, parts 3-5, and part 9	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Condition #11513, part 10	P/A	Annual baghouse inspection
	BAAQMD Condition #11513, parts 6, 7	Y		0.02 gr/dscf	BAAQMD Condition #11513, part 8	P/Permit term	Source test per permit term

Table VII - H
S-43 - RAIL CAR/TRUCK UNLOADING AND TRANSFERRING

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. #11513, part 12	P/W	Pressure drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. #11513, part 13	P/A	Annual baghouse inspection

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - H
S-43 - RAIL CAR/TRUCK UNLOADING AND TRANSFERRING

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #11513, part 12	P/W	Pressure drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #11513, part 13	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #11513, part 12	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #11513, part 13	P/A	Annual baghouse inspection

Table VII - I
S-45 - BATCH MIXER
S-47 - BASEMENT ELEVATOR (BATCH)
S-52 - BASEMENT CONVEYOR (SHAKER)
S-53 - BATCH MATERIAL SCALE

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. # 15452, parts 2, 11	P/W	Pressure drop monitoring

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - I
S-45 - BATCH MIXER
S-47 - BASEMENT ELEVATOR (BATCH)
S-52 - BASEMENT CONVEYOR (SHAKER)
S-53 - BATCH MATERIAL SCALE

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. # 15452, part 12	P/A	Annual baghouse inspection
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term
	BAAQMD condition #15452, part 3	Y		0.02 gr/dscf	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term

Table VII - J
S-49 - FRIT FEEDER

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Condition #16601, part 1	P/W	Visible emission monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - J
S-49 - FRIT FEEDER

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr		N	

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - K
S-50 - STORAGE BIN

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. # 15452, part 5, part 11	P/W	Pressure drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. # 15452, part 12	P/A	Annual baghouse inspection
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term
	BAAQMD condition #15452, part 6	Y		0.02 gr/dscf	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - L
S-51 - MATERIAL RECEIVER

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. # 15452, part 8, part 11	P/W	Pressure drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. # 15452, part 12	P/A	Annual baghouse inspection
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term
	BAAQMD condition #15452, part 9	Y		0.02 gr/dscf	BAAQMD Cond. # 15452, part 10	P/Permit term	Source test per permit term

VII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

Table VII - M
S-101 - CULLET CRUSHER

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TSP	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. # 15747, part 3	P/W	Pressure drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0	BAAQMD Cond. # 15747, part 4	P/A	Annual baghouse inspection
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. # 15747, part 3	P/W	Pressure drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. # 15747, part 4	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. # 15747, part 3	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond. # 15747, part 4	P/A	Annual baghouse inspection

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 9-1-302	General Emission Limitation, SO2	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-12-301	Emission Limit, NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling or EPA Method 7E, 40 CFR Part 60 Appendix A
BAAQMD 11-1-301	Daily Limitation, Lead	Manual of Procedures, Volume IV, ST-9, Lead
SIP 11-1-301	Daily Limitation, Lead	Manual of Procedures, Volume IV, ST-9, Lead

IX. REVISION HISTORY

Initial Issuance:	November 1, 1999
Administrative Amendment:	May 22, 2001

X. GLOSSARY

BAAQMD
Bay Area Air Quality Management District

BACT
Best Available Control Technology

CAA
The federal Clean Air Act

CAAQS
California Ambient Air Quality Standards

CEQA
California Environmental Quality Act

CFR
The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO
Carbon Monoxide

Cumulative Increase
The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District
The Bay Area Air Quality Management District

EPA
The federal Environmental Protection Agency.

Excluded
Not subject to any District Regulations.

FE, Federally Enforceable
All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD),

Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits

X. Glossary

Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

HAP
Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

Major Facility
A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

MFR
Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MOP
The District's Manual of Procedures.

NAAQS
National Ambient Air Quality Standards

NESHAPs
National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

NMHC
Non-methane Hydrocarbons

NOx
Oxides of nitrogen.

NSPS
Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

NSR
New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by

X. Glossary

the California Clean Air Act.)

Offset Requirement
A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NOx, PM10, and SO2.

Phase II Acid Rain Facility
A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

POC
Precursor Organic Compounds

PM
Total Particulate Matter

PM10
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD
Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

SIP
State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO2
Sulfur dioxide

Title V
Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TSP
Total Suspended Particulate

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VOC
Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m^2	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

XI. APPLICABLE STATE IMPLEMENTATION PLAN

See Attachments